

**CONFIDENTIAL**

Release Date *04/01/34*

**P-W**

Kerr-McGee #1 Navajo-F  
SE SE 24-36N-29E Apache County

COUNTY Apache AREA Dineh bi Keyah LEASE NO. Ind. 14/20/0603/8824

WELL NAME Kerr-McGee #1 Navajo-F

LOCATION SE SE SEC 24 TWP 36N RANGE 29E FOOTAGE 550' FSL 740' FEL  
ELEV 8488' GR 9499' KB SPUD DATE 11-6-67 STATUS Prd TOTAL DEPTH 4465'  
COMP. DATE 7-6-69 Plugged 12-15-69 4400 PBTB

CONTRACTOR

| CASING SIZE | DEPTH | CEMENT | LINER SIZE & DEPTH | DRILLED BY ROTARY     |     |
|-------------|-------|--------|--------------------|-----------------------|-----|
| 9 5/8"      | 751'  | 490 SK | NA                 | DRILLED BY CABLE TOOL |     |
| 7           | 4462  | 150 SK |                    | PRODUCTIVE RESERVOIR  |     |
|             |       |        |                    | INITIAL PRODUCTION    | P&A |

| FORMATION TOPS | DEPTHS  | SOURCE |      | REMARKS |
|----------------|---------|--------|------|---------|
|                |         | L.L.   | E.L. |         |
| Tertiary       | Surface |        | x    |         |
| Chinle         | 718'    |        |      |         |
| Coconino       | 1792'   |        |      |         |
| Cutler         | 2514'   |        |      |         |
| Hermosa        | 3641'   |        |      |         |
| Intrusive      | 4222'   |        |      |         |
| Mississippian  | 4401'   |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |
|                |         |        |      |         |

| ELECTRIC LOGS | PERFORATED INTERVALS | PROD. INTERVALS | SAMPLE LOG     |
|---------------|----------------------|-----------------|----------------|
| IES, GR-Sonic | 4239-4245'           | 4329-4251'      | SAMPLE DESCRP. |
|               | 4246-4251'           |                 | SAMPLE NO.     |
|               |                      |                 | CORE ANALYSIS  |
|               |                      |                 | DSTs           |

REMARKS 3/11/68 permission to TA 6/6/68 approval to rework

|               |   |
|---------------|---|
| APP. TO PLUG  | x |
| PLUGGING REP. | x |
| COMP. REPORT  | x |

WATER WELL ACCEPTED BY

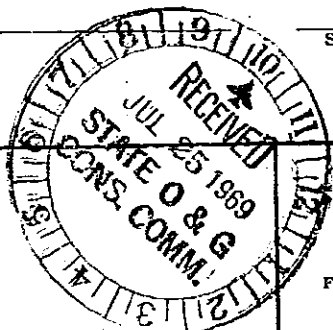
BOND CO. Firemen's Insurance Co. BOND NO. BND 188 98 10-528  
BOND AMT. \$ 25,000 CANCELLED DATE ORGANIZATION REPORT 7-15-60  
FILING RECEIPT 2846 LOC. PLAT x WELL BOOK x PLAT BOOK x  
API NO. 02-001-20051 DATE ISSUED 8-29-67 DEDICATION S/4

PERMIT NUMBER 427

(over)

| WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG   |                                    |   |                                     |  |  |  |                              |   |  |
|---|------------------------------------|---|-------------------------------------|--|--|--|------------------------------|---|--|
| DESIGNATE TYPE OF COMPLETION:   |                                    |   |                                     |  |  |  |                              |   |  |
| New Well <input checked="" type="checkbox"/>  | Work-Over <input type="checkbox"/> | Deepen <input type="checkbox"/>   | Plug Back <input type="checkbox"/>  | Same Reservoir <input type="checkbox"/>                  | Different Reservoir <input type="checkbox"/> | Oil <input checked="" type="checkbox"/>  | Gas <input type="checkbox"/> | Dry <input type="checkbox"/>                |  |
| DESCRIPTION OF WELL AND LEASE   |                                    |   |                                     |  |  |  |                              |   |  |
| Operator<br>KERR-McGEE CORPORATION  |                                    |   |                                     | Address<br>215 Petroleum Center Building, Farmington, NM |  |  |                              |   |  |
| Federal, State or Indian Lease Number or name of lessor if fee lease<br>14-20-0603-8824 NAVAJO "F"  |                                    |   |                                     | Well Number<br>1   |  | Field & Reservoir<br>Dineh-bi-Keyah, Lower Harnosa                                   |                              |   |  |
| Location<br>550' FSL and 740' FEL (SESE)  |                                    |   |                                     | County<br>Apache   |  |  |                              |   |  |
| Sec. TWP-Range or Block & Survey<br>Sec. 24, T36N, R29E G&SRM   |                                    |   |                                     |  |  |  |                              |   |  |
| Date spudded<br>11-6-67   |                                    | Date total depth reached<br>11-27-67  |                                     | Date completed, ready to produce<br>7-6-69               |  | Elevation (DF, RKB, RT or Gr.)<br>8485 feet  |                              | Elevation of casing hd. flange<br>8485 feet |  |
| Total depth<br>4465'  |                                    | P.B.T.D.<br>4400'   |                                     | Single, dual or triple completion?<br>Single             |  | If this is a dual or triple completion, furnish separate report for each completion. |                              |   |  |
| Producing interval (s) for this completion<br>4239-4251'  |                                    |   |                                     | Rotary tools used (interval)<br>0-4465'                  |  | Cable tools used (interval)<br>None  |                              |   |  |
| Was this well directionally drilled?<br>No  |                                    | Was directional survey made?<br>No  |                                     | Was copy of directional survey filed?<br>---             |  | Date filed<br>---  |                              |   |  |
| Type of electrical or other logs run (check logs filed with the commission)<br>IES, GR-Sonic, both filed  |                                    |   |                                     |  |  | Date filed<br>1-9-68   |                              |   |  |
| CASING RECORD   |                                    |   |                                     |  |  |  |                              |   |  |
| Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)   |                                    |   |                                     |  |  |  |                              |   |  |
| Purpose   | Size hole drilled                  | Size casing set   | Weight (lb./ft.)                    | Depth set  | Sacks cement                                 | Amt. pulled  |                              |   |  |
| Surface   | 13 3/4"                            | 9 5/8"  | 32.30                               | 751'   | 490  | None   |                              |   |  |
| Production  | 8 3/4"                             | 7"  | 23                                  | 4462'  | 150  | None   |                              |   |  |
| TUBING RECORD   |                                    |   |                                     |  | LINER RECORD                                 |  |                              |   |  |
| Size<br>2 3/8" in.  | Depth set<br>4311 ft.              | Packer set at<br>None ft.   | Size<br>None in.                    | Top<br>ft.   | Bottom<br>ft.                                | Sacks cement<br>ft.  | Screen (ft.)                 |   |  |
| PERFORATION RECORD  |                                    |   |                                     | ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD              |  |  |                              |   |  |
| Number per ft.  | Size & type                        | Depth Interval  |                                     | Amt. & kind of material used                             |  |  | Depth Interval               |   |  |
| 3   | 0.52" jet                          | 4239-4245'  |                                     | 2000 gal Acid, 36000 gal oil & 37,500# sand              |  |  | 4226-4251'                   |   |  |
| 1   | 0.52" jet                          | 4246-4251'  |                                     | 250 sxs cnt, 40000 gal                                   |  |  | 4239-4251'                   |   |  |
| INITIAL PRODUCTION OIL & 20000# sd  |                                    |   |                                     |  |  |  |                              |   |  |
| Date of first production<br>7-6-69  |                                    | Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):<br>Pumping 2"x1 1/4"x10"x14" Volume Producer RHEC |                                     |  |  |  |                              |   |  |
| Date of test<br>7-22-69   | Hrs. tested<br>24                  | Choke size<br>None  | Oil prod. during test<br>2.76 bbls. | Gas prod. during test<br>77 MCF                          | Water prod. during test<br>0.03 bbls.        | Oil gravity<br>34.2 API (Corr)   |                              |   |  |
| Tubing pressure<br>None   | Casing pressure<br>None            | Cal'd rate of Production per 24 hrs.  | Oil<br>2.76 bbls.                   | Gas<br>77 MCF  | Water<br>0.03 bbls.                          | Gas-oil ratio<br>27,600/1  |                              |   |  |
| Disposition of gas (state whether vented, used for fuel or sold):<br>Vented   |                                    |   |                                     |  |  |  |                              |   |  |
| <p style="text-align: right;">Production Superintendent</p> <p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p> <p>July 24, 1969<br/>Date</p> <p style="text-align: right;">Signature C D Williams</p> |                                    |   |                                     |  |  |  |                              |   |  |
| <p>STATE OF ARIZONA</p> <p>OIL &amp; GAS CONSERVATION COMMISSION</p> <p>Well Completion or Recompletion Report and Well Log</p> <p>Form No. 4      File One Copy</p>  |                                    |   |                                     |  |  |  |                              |   |  |
| <p>Permit No. 427</p> <p style="text-align: center;">(Complete Reverse Side)</p>  |                                    |   |                                     |  |  |  |                              |   |  |

2 Ariz  
1 Tribe  
1 JFisher  
1 RWKing  
2 WRF  
1 RF



# DETAIL OF FORMATIONS PENETRATED

| Formation                       | Top     | Bottom                     | Description*  |
|---------------------------------|---------|----------------------------|---|
| B. Chuska/T. Wingate (Tertiary) | Surface | 718'                       | Sandstone   |
| Chinle (Triassic)               | 718'    | 1792'                      | Red shale with thin stringers sandstone                         |
| Coconino (Permian)              | 1792'   | 2514'                      | Massive sandstone with shaly stringers                          |
| Cutler (Permian)                | 2514'   | 3641'                      | Shale, sandstone & lime   |
| Hermosa (Penn)                  | 3641'   | 4222'                      | Limestone, dense, with red & gray shale and thin stringers sand |
| Intrusive (Tertiary)            | 4222'   | 4401' <sup>4410'</sup> (C) | Syenite sill  |
| Mississippian                   | 4401'   | 4465' TD                   | Limestone, dense, with some varicolored shale                   |

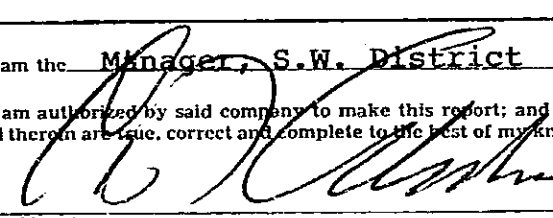
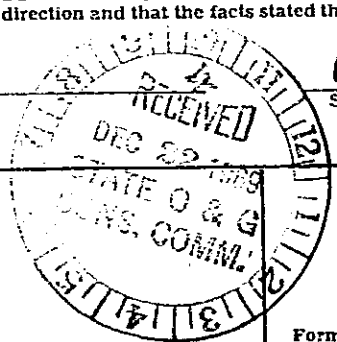
\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

## INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

| PLUGGING RECORD   |                   |  |  |  |                      |
|---|-------------------|--|--|--|----------------------|
| Operator<br><b>Kerr-McGee Corporation</b>   |                   |  | Address<br><b>P. O. Box 250, Amarillo, Texas 79105</b>         |  |                      |
| Federal, State, or Indian Lease Number, or lessor's name if fee lease.<br><b>14-20-0603-8824</b>  |                   | Well No.<br><b>F-1</b>   | Field & Reservoir<br><b>Dineh-bi-Keyah Field-lower Hermosa</b> |  |                      |
| Location of Well<br><b>550' FSL &amp; 740' FEL</b>  |                   | Sec-Twp-Rge or Block & Survey<br><b>Sec 24, T36N, R29E</b>   |  | County<br><b>Apache</b>  |                      |
| Application to drill this well was filed in name of<br><b>Kerr-McGee Corporation</b>  |                   | Has this well ever produced oil or gas<br><b>Yes</b>   |  | Character of well at completion (initial production):<br>Oil (bbls/day) <b>2.76</b> Gas (MCF/day) <b>77</b> Dry? <b></b> |                      |
| Date plugged:<br><b>12-15-69</b>  |                   | Total depth<br><b>4465</b>   |  | Amount well producing when plugged:<br>Oil (bbls/day) <b>Trace</b> Gas (MCF/day) <b>50</b> Water (bbls/day) <b>1/2</b>   |                      |
| Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging  |                   | Fluid content of each formation  |  | Depth interval of each formation   |                      |
| <b>Lower Hermosa Intensive</b>  |                   | <b>Trace Oil</b>   |  | <b>4222-4401</b>   |                      |
|   |                   |  |  | <b>150 sxs cement w/80</b>   |                      |
|   |                   |  |  | <b>sxs squeezed into</b>   |                      |
|   |                   |  |  | <b>formation. Plug @ 3875'</b>   |                      |
| <b>Coconino</b>   |                   | <b>Possible fresh water</b>  |  | <b>1792-2514'</b>  |                      |
| <b>in area</b>  |                   |  |  | <b>125 sxs. Top of</b>   |                      |
|   |                   |  |  | <b>plug at 2291'.</b>  |                      |
| CASING RECORD   |                   |  |  |  |                      |
| Size pipe   | Put in well (ft.) | Pulled out (ft.)   | Left in well (ft.)   | Give depth and method of parting casing (shot, ripped, etc.)   | Packers and shoes    |
| <b>9 5/8"</b>   | <b>751</b>        | <b>0'</b>  | <b>751'</b>  | <b>None</b>  | <b>Shoe at 751'</b>  |
| <b>7"</b>   | <b>4462'</b>      | <b>0'</b>  | <b>4462'</b>   | <b>None</b>  | <b>Shoe at 4462'</b> |
| Was well filled with mud-laden fluid, according to regulations?<br><b>Yes</b>   |                   |  |  | Indicate deepest formation containing fresh water.<br><b>None indicated.</b>   |                      |
| NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE  |                   |  |  |  |                      |
| Name  |                   | Address  |  | Direction from this well:  |                      |
| <b>Navajo Tribe</b>   |                   | <b>Window Rock, Arizona</b>  |  | <b>Surface</b>   |                      |
| <b>Humble Oil</b>   |                   | <b>Denver, Colorado</b>  |  | <b>South and West</b>  |                      |
| In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required. |                   |  |  |  |                      |
| Use reverse side for additional detail.   |                   |  |  |  |                      |
| CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <b>Manager, S.W. District</b> of the <b>Kerr-McGee Corporation</b> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.  |                   |  |  |  |                      |
| Date<br><b>12-18-69</b>   |                   | Signature<br> |  |  |                      |
| <b>Ariz-1</b> <b>WRF-1</b><br><b>USGS-2</b><br><b>Tribe-1</b><br><b>JIF-1</b><br><b>RWK-1</b><br><b>CJB-1</b><br>Permit No. <b>427</b>  |                   | STATE OF ARIZONA<br>OIL & GAS CONSERVATION COMMISSION<br>Plugging Record<br>File One Copy          |  |  |                      |
|   |                   |  |  | Form No. 10  |                      |

GAS-OIL RATIO TEST REPORTS

Filed under Oil-Gas Ratio Tests, Dineh-bi-Keyah Field  
in cabinet in office of Enforcement Director

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R714.4  
Approval expires 12-31-60.

ALLOTTEE Navajo  
TRUCK 14-20-0603-8824  
LEASE NO. Navajo "F" Lease

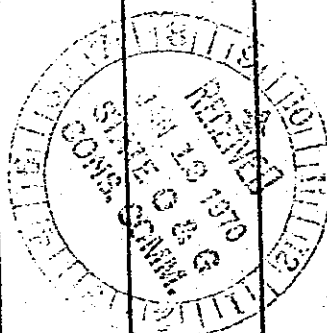
**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Arizona County Apache Field Dineh-bi-Keyah  
The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1969.  
Agent's address P. O. Box 250 Company Kerr-McGee Corporation  
Amarillo, Texas 79105 Signed William Morris  
Phone 376-7256 Agent's title District Clerk

| SEC. AND 1/4 OF 1/4                                 | TWP. | RANGE | WELL NO. | DAYS PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and results of test for gasoline content of gas) |
|---|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|---|
| SE SE 24  | 36N  | 29E   | 1        | 0             | 0              |         | 0                             | 0                             | 0                                    | *   |
| *Plug and Abandon Well 12/15/69. Lease has expired. |      |       |          |               |                |         |                               |                               |                                      |   |
| This is last report to be filed on this lease.      |      |       |          |               |                |         |                               |                               |                                      |   |

**DISTRIBUTION**

2 - USGS  
2 - Arizona  
1 - Tribe  
1 - J. I. Fisher  
1 - H. A. Coats  
1 - WRF  
1 - RF-WM  
1 - J. Breeden



NOTE.—There were 0 runs or sales of oil; NO M. cu. ft. of gas sold;

NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE MANNER  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "F"

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec 24-T36N-R29E

12. COUNTY OR PARISH 13. STATE

Apache

Arizona

14. PERMIT NO.

State No. 427

15. ELEVATIONS (Show whether DV, RT, OR, etc.)

84

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

X

(Note: Report results of multiple completion or Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)

Plug No. 1--Squeezed perforations w/150 sxs cement. 80 sxs squeezed into  
formation and 70 sxs left in casing. Top of plug at 3875'.

Plug No. 2--Perforated at 2514' RKB (Base of Coconino Sand) w/4 jets. Set  
cement retainer at 2424' and squeezed 100 sxs below retainer and spotted  
25 sxs on top of retainer. Top of plug at 2291'.

Plug No. 3--25 sxs surface plug from GL to 100'.

No pipe was pulled from well. Installed dry hole marker. Abandonment  
completed 12-15-69.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Manager

DATE Dec. 18, 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-B1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "P"

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 24, T36N, R29E

12. COUNTY OR PARISH

Apache

13. STATE  
Arizona

14. PERMIT NO.

State No. 427

15. ELEVATIONS (Show whether DY, RT, CR, etc.)

8485' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

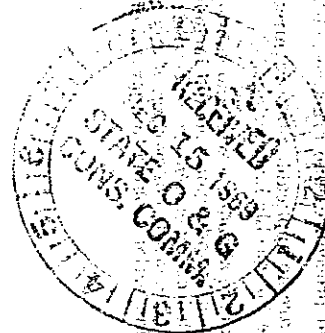
ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Change in plans for plugging of well are due to adverse weather conditions making recovery of 7" casing uneconomical. Also having difficulty getting suitable equipment. New proposal is to squeeze perforations w/150 sxs cement. Perforate 7" casing w/4 holes at base of Coconino Sand (2514') and squeeze w/100 sxs cement. Set 100' plug at top of 7" casing. Bradenhead will be left on well and surface marker installed.

3-USGS  
2-Arizona  
1-Tribe  
1-JIF  
1-RWK  
1-JB  
1-WRP



18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Manager

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE Ex Sec

DATE 12-15-69

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

6

427

December 11, 1969

Memo to Kerr-McGee #1 Navajo F  
T36N, R29E, G & SRM  
Sec. 24: SE/4 SE/4  
Apache County  
Permit #427

Memo taken per telephone conversation this date.  
Mr. Bud Williams, Amarillo, Texas, Kerr-McGee,  
called and advised of a change in plugging of  
this well. They wanted immediate approval of  
this new plugging program so they could move  
in right away while the weather is such that  
they can get in. Also the Indians want it done  
right away.

They were going to shoot off the 7" pipe at 3500'  
but because of the time element will now leave it  
in the hole. They plan to squeeze the existing  
perforations (4239-4251'), and go into the Coco-  
nino (base at 2514') and plug with 100 sacks of  
cement. They plan to set a 100' plug at the  
top of the casing and install a surface marker.  
The total depth of this well was 4462'.

Verbal approval was given this date by John Ban-  
nister. Mr. Williams said he will submit reports  
in a short time.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Navajo "E"

8. FARM OR LEASE NAME

Navajo "E"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24, T36N, R29E

12. COUNTY OR PARISH 13. STATE

Apache

Arizona

14. PERMIT NO.

State No. 427

15. ELEVATIONS (Show whether DT, MT, OR, etc.)

8485' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well was temporarily abandoned in July, 1968, due to poor response from stimulation work performed on the well. Pumping Unit was installed during July, 1969, to pump test well. Production was as follows: July - 23 days, 93 BO and 32 BW; August - 31 days, 0.4 BO and 25 BW; September - 30 days, 5 BO and 16BW. Well is uneconomical to operate. Lease expires on October 30, 1969. Plugging requested to allow removal of equipment from lease. Well has 7" casing at 4462' and perforations from 4239' to 4251'.

Proposed to squeeze perforation using 150 SXS cement. Shoot off pipe at approximately 3500' and pull same. Set 100' cement plug across pipe stub. Set cement plug across base of Coconino Sand from 2364' to 2614'. Set cement plug across base of surface pipe from 701' to 801'. Set 25' surface plug and install surface marker.

- 3 - USGS
- 2 - Arizona
- 1 - Tribe
- 1 - J. I. Fisher
- 1 - R. W. King
- 1 - J. Breeden
- 1 - ~~USGS~~

SIGNED

TITLE

MANAGER

DATE

10/31/69

(This space for Federal or State office use)

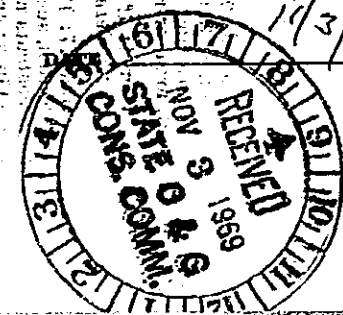
APPROVED BY

TITLE

Executive Secretary

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



X Lambert  
X Chian

August 27, 1969

Memo to Kerr-McGee #1 Navajo F  
T36N, R29E, G & SRM  
Sec. 24: SE/4 SE/4  
Apache County  
Permit #427

Memo from J. Lambert

Talked to Joe Breeden at 1:30 this date. Having received a GOR report that indicated this well was a gas well and holding in mind that 125 barrels of oil was the only production reported for the month of July, I listened to their explanation. It seems that the production in the tank this month proved to be largely water so they decided to do a GOR test and he assures me that the reported 62.5 MCF was the day's production on the date the well was tested, and that of the fluid produced, only 1% was oil.

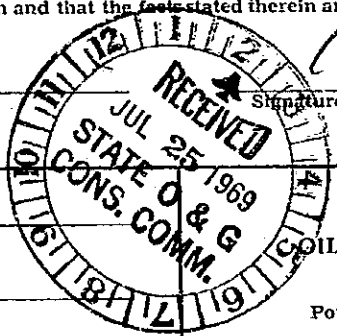
Account of low production they are considering plugging and abandoning the well.

94

427

13

| POTENTIAL TEST AND REQUEST FOR ALLOWABLE OIL WELLS  |  |  |   |  |
|---|--|--|---|--|
| DESIGNATE TYPE OF COMPLETION:   |  |  |   |  |
| New Well <input checked="" type="checkbox"/>  | Work-over <input type="checkbox"/>   | Deepen <input type="checkbox"/>  | Plug Back <input type="checkbox"/>                    | Same Reservoir <input type="checkbox"/> Different Reservoir <input type="checkbox"/> |
| Other Reason For Filing:  |  |  |   |  |
| Operator<br><b>KERR-McGEE CORPORATION</b>   |  |  |   |  |
| Address<br><b>215 Petroleum Center Building, Farmington, New Mexico 87401</b>   |  |  |   |  |
| DESCRIPTION OF WELL AND LEASE   |  |  |   |  |
| Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease<br><b>14-20-0603-8824 NAVAJO "F"</b>   |  | Well Name<br><b>1</b>  |   | County<br><b>Apache</b>  |
| Footage Location<br><b>550' FSL and 740' FEL (SESE)</b>   |  |  |   |  |
| Sec. Twp. Rge.<br><b>Sec 24, T36N, R29E</b>   |  |  |   |  |
| Date spudded<br><b>11-6-67</b>  | Date completed, ready to produce<br><b>7-6-69</b>  | Total depth<br><b>4465'</b>  | P.B.T.D.<br><b>4400'</b>                              |  |
| Field and reservoir<br><b>Dineh-bi-Keyah, Lower Hermosa</b>   |  | Top of pay<br><b>4222'</b>   | Producing interval<br><b>4239-4251'</b>               |  |
| TEST DATA   |  |  |   |  |
| Date of first production<br><b>7-6-69</b>   | Date of test<br><b>7-22-69</b>   | Length of test<br><b>24</b> hrs.   | Producing method (flow pump, gas lift)<br><b>Pump</b> | Amount of load oil injected if any.  |
| Number of barrels of oil produced from completion or recompletion date to test date<br><b>106</b>   |  | If well is produced by pumping, give pump size, length of stroke and strokes per minute.<br><b>Pumping 2"x1 1/4", 36", 12 SPM, 2 hrs per day</b> |   |  |
| Tubing pressure<br><b>None</b>  | Casing pressure<br><b>None</b>   | Choke size<br><b>None</b>  |   |  |
| *Actual production during test:<br><b>2.79 bbls</b>   | Oil (bbls)<br><b>2.76</b>  | Water (bbls)<br><b>0.03</b>  | Gas (MCF)<br><b>77</b>                                |  |
| *Production must actually equal or exceed wells daily allowable or test must be for full 24 hours   |  |  |   |  |
| Gas-oil ratio<br><b>27,600</b>  | MCF/bbl.   | Oil gravity<br><b>34.2</b>   | * A.P.I. corrected                                    | Name of transporter of oil<br><b>Kerr-McGee Pipeline Corporation</b>                 |
| Number of acres attributed to this well<br><b>160 (SE 1/4)</b>  | Number of producing wells in this reservoir on this lease, including this well<br><b>One</b> | Single, dual or triple completion?<br><b>Single</b>  | Daily allowable requested (bbls)                      |  |
| Plat showing acreage attached—plat should show leases, offset wells, distance from this well to the nearest well on the same lease completed in or drilling to the same reservoir, and the boundaries of drilling and producing, or proration, units attributed to this well and other wells on the same lease completed in or drilling to the same reservoir, the number of acres in each unit and the number of acres in the lease. |  |  |   |  |
| CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Production Superintendent</u> of the<br><u>KERR-McGEE CORPORATION</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.                               |  |  |   |  |
| Date<br><b>July 24, 1969</b>  |  | Signature<br><i>[Signature]</i><br><b>CD Williams</b>  |   |  |
| Witnessed by: _____ Organization _____  |  | STATE OF ARIZONA<br>OIL & GAS CONSERVATION COMMISSION<br>Potential Test & Request for Allowable—Oil Wells<br>File One Copy                       |   |  |
| Signature _____   |  |  |   |  |
| Date _____  |  |  |   |  |
| Permit No. <b>427</b>   |  | Form No. 6   |   |  |



1 Ariz 1 Tribe 1 J. Fisher  
1 RWK 2 WRF 1 RF

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R714.4.  
Approval expires 12-31-60.

ALLOTTEE  
TRIBE NAVAJO  
LEASE NO. 14-20-0603-8824  
NAVAJO "F" LEASE

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

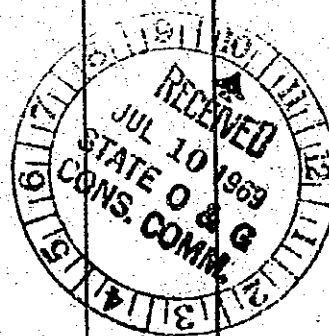
State Arizona County Apache Field Dineh-bi-Kayah

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUNE, 1969,

Agent's address 215 Petroleum Center Building Company KERR-MCCRE CORPORATION  
Farmington, New Mexico 87401 Signed William Morris

Phone 327-9637 Agent's title Production Clerk

| SEC. AND<br>1/4 OF 1/4 | TWP. | RANGE | WELL<br>NO. | DAYS<br>PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS<br>(in thousands) | GALLONS OF<br>GASOLINE<br>RECOVERED | BARRELS OF<br>WATER (if<br>none, so state) | REMARKS<br>(If drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas)  |
|------------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|--|
| SESE, 24               | 36N  | 29E   | 1           | 0                | None.          | 42.7    |                                  |                                     |  | Well has been IA since July, 1968. Moved in DD unit and ran tubing to 4291'. Ran 2x1 1/2"x10x14 insert pump on sucker rods. Installed National D115B pumping unit with 10 HP electric motor. Electric line has to be completed before well can be pumped |
| 2 USGS                 |      |       |             |                  |                |         |                                  |                                     |  |  |
| 2 Ariz                 |      |       |             |                  |                |         |                                  |                                     |  |  |
| 1 Tribe                |      |       |             |                  |                |         |                                  |                                     |  |  |
| 1 JIFisher             |      |       |             |                  |                |         |                                  |                                     |  |  |
| 1 WRF                  |      |       |             |                  |                |         |                                  |                                     |  |  |
| 1 RF, NM               |      |       |             |                  |                |         |                                  |                                     |  |  |
| 1 RF, CIN              |      |       |             |                  |                |         |                                  |                                     |  |  |



NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form approved.  
Budget Bureau No. 42-R3565.

ALLOTTEE \_\_\_\_\_  
TRIBE NAVAJO  
LEASE NO. 14-20-0603-3824  
NAVAJO "F" LEASE

State Arizona County Apache Field Dineh-bi-Kayah  
The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1968,  
Agent's address 215 Petroleum Center Building Company Kerr-McGee Corporation  
Farmington, New Mexico 87401 Signed [Signature]  
Phone 327-9637 Agent's title C. D. Williams Fred Supt

2 USGS, Roswell  
2 Ariz  
1 Tribe  
1 JIFisher  
1 WRF  
1 RF

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

**NOTE.**—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Dineh-Bi-Kayah

11. SEC. T., R., M., OR BLM. AND

SURVEY OR AREA

Sec. 24, T36N, R29E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

215 Petroleum Center Building, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface

550' PSL and 740' FEL (SESE), Sec. 24

14. PERMIT NO.  
State 427

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

8485' Gr

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Temporarily Abandon

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Due to poor response from additional stimulation work performed on the well, permission is requested to temporarily abandon the well while we consider possible additional stimulation work or utilization of the well bore for some other purpose such as deepening to a lower zone.

18. I hereby certify that the foregoing is true and correct.

SIGNED

C. D. Williams

TITLE Production Superintendent

DATE July 2, 1968

(This space for Federal or State office use)

APPROVED BY

John D. Annister

Executive Secretary

DATE 7-9-68

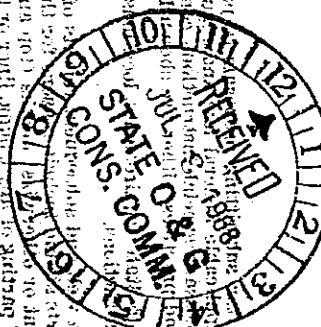
CONDITIONS OF APPROVAL, IF ANY:

Arizona Oil & Gas Conservation Commission

Distribution:  
3 USGS  
2 APIS x  
1 Tribe  
1 JIFisher  
1 Wrf  
1 RF

427

\*See Instructions on Reverse Side





Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

|  |  |
|--|--|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>   | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>14-20-0603-8824</b>              |
| 2. NAME OF OPERATOR<br><b>Kerr-McGee Corporation</b>   | 6. INDIAN, ALLOTTEE OR TRIBE NAME<br><b>Navajo</b>                         |
| 3. ADDRESS OF OPERATOR<br><b>215 Petroleum Center Building, Farmington, New Mexico 87401</b>   | 7. UNIT AGREEMENT NAME   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.<br>See also space 17 below.)<br>At surface<br><b>550' FSL and 740' FEL (SESE), Sec. 24</b> | 8. FARM OR LEASE NAME<br><b>Navajo "P"</b>                                 |
|  | 9. WELL NO.<br><b>1</b>  |
|  | 10. FIELD AND POOL, OR WILDCAT<br><b>Dineh-bi-Kayah</b>                    |
|  | 11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA<br><b>Sec. 24, T36N. R29E</b> |
| 14. PERMIT NO.<br><b>State 427</b>   | 12. COUNTY OR PARISH<br><b>Apache</b>                                      |
| 15. ELEVATIONS (Show whether DF, ST, GR, etc.)<br><b>8485' GR</b>  | 13. STATE<br><b>Arizona</b>  |

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO:                      |   | SUBSEQUENT REPORT OF:   |  |
|--|---|---|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>   | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    | FRACTURE TREATMENT <input checked="" type="checkbox"/>  | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             | SHOOTING OR ACIDIZING <input type="checkbox"/>  | ABANDONMENT <input type="checkbox"/>     |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         | (Other) <b>Squeeze &amp; Reperforate</b> <input checked="" type="checkbox"/>                          |  |
| (Other) <input type="checkbox"/>             |   | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |  |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Sand pack csg to 4239'. Set cement retainer at 4183' and squeeze top group of perforations (4226-38) with 250 axs cement. Maximum squeeze press 3000 psi. Clean out hole to 4309'. Perforated 4239-4245 with 2 jets /ft. Frac with 4,000 gal oil, 20,000# 20-40 sand and 2,000# Mark II adomite. Max Press 3000#; avg inj rate 28 bbls /min; avg treating press 1800 psi; ISDP 1500 psi, 30 min 1110. Ran tbg and swab tested well.

|         |          |
|---------|----------|
| 6-26-68 | 236 bbls |
| 6-27-68 | 105 bbls |
| 6-28-68 | 52 bbls  |
| 6-29-68 | 25 bbls  |
| 6-30-68 | 27 bbls  |
| 7-1-68  | 8 bbls   |

453

Shut down swabbing operations.

18. I hereby certify that the foregoing is true and correct

SIGNED

*C. D. Williams*

TITLE **Production Superintendent**

DATE **July 2, 1968**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Distribution:

2 USGS  
2 Ariz X  
1 Tribe 1 JIFisher  
1 WRF  
1 RF 19

\*See Instructions on Reverse Side

427

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo #1

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Dish-bi-Kayah

11. SEC. T. R. M. OR BLM. AND

SURVEY OR AREA

Sec. 24, T36N, R29E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

8485' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

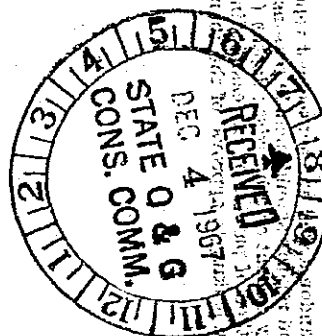
ABANDONMENT\*

Total Depth

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Drilled 8-3/4" hole to 4465'. Set 7" O.D., 23#, J-55, casing at 4462'. Cemented with 150 sacks Class A 50-50 Pozmix cement with 43 gal. Used pump & plug method. Plug down 11-29-67. Tested casing with 1500 psi for 30 minutes. Held OK. Waiting to move out rotary and move in completion unit.



18. I hereby certify that the foregoing is true and correct

SIGNED

Production Superintendent

DATE Nov 30, 1967

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

2-0803

2-Ariz. OCC

1-TFMS

1-J.I.P.

1-WRF

1-RF

427

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

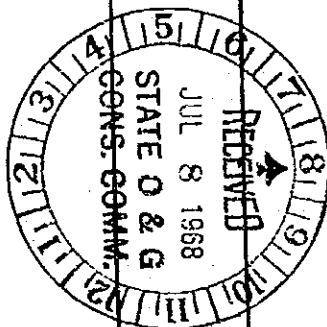
Form approved.  
Budget Bureau No. 42-R356.5.

ALLOTTEE NAVAJO  
TRIM 14-20-0603-8824  
LEASE NO. NAVAJO "F" LEASE

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Arizona County Apache Field Dineh-bi-Keyah  
The following is a correct report of operations and production (including drilling and producing wells) for the month of JUNE, 1968,  
Agent's address 215 Petroleum Center Building Company KERR-MCGEE CORPORATION  
Farmington, New Mexico 87401 Signed C D Williams  
Phone 327-9637 Agent's title Prod. Supt.

| SEC. AND<br>1/4 OF 1/4 | TWP. | RANGE | WELL<br>NO. | DATE<br>PRODUCED | BARRELS OF OIL  | GRAVITY | CU. FT. OF GAS<br>(In thousands) | GALLONS OF<br>GASOLINE<br>RECOVERED | BARRELS OF<br>WATER (If<br>none, so state) | REMARKS<br>(If drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas) |
|------------------------|------|-------|-------------|------------------|---|---------|----------------------------------|-------------------------------------|--|---|
| SESE, 24               | 36N  | 29E   | 1<br>421    | 0                | Squeeze perf 4226-38 with 250 sacs cement. Reperforate 4239-4245' with 2 jets 1/4". Fracture with 40,000 gal oil and 20,000# sand. Swab test. Shut in well due to poor performance. Notice of intention to temporarily abandon has been submitted for approval. |         |                                  |                                     |  |   |



2 USGS, Roswell  
X2 Ariz  
1 Tribe  
1 JIFisher  
1 WRF  
1 RF

NOTE.—There were no runs or sales of oil; no M. cu. ft. of gas sold;  
no runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

3 USGS  
+2 Atia  
1 Tribe  
1 JIF  
1 WRD  
1 RF

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-8824**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**

7. UNIT AGREEMENT NAME  
**Navajo**

8. FARM OR LEASE NAME  
**Navajo**

9. WELL NO.  
**1**

10. FIELD AND POOL OR WILDCAT  
**Navajo**

11. SEC. T. R. M. OR R.R. AND SURVEY OR AREA  
**Sec. 24, T36N, R29E**

12. COUNTY OR PARISH  
**Apache**

13. STATE  
**Arizona**

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR  
**KERR-MCGEE CORPORATION**

3. ADDRESS OF OPERATOR  
**215 Petroleum Center Building, Farmington, New Mexico 87401**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
**550' FSL & 740' FEL (SE2E) Sec. 24**

14. PERMIT NO.  
**State No. 427**

15. ELEVATIONS (Show whether DP, RT, GR, etc.)  
**8485' GR**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: |                                     | SUBSEQUENT REPORT OF:   |                          |
|-------------------------|-------------------------------------|---|--------------------------|
| TEST WATER SHUT-OFF     | <input type="checkbox"/>            | WATER SHUT-OFF  | <input type="checkbox"/> |
| FRACTURE TREAT          | <input checked="" type="checkbox"/> | FRACTURE TREATMENT  | <input type="checkbox"/> |
| SHOOT OR ACIDIZE        | <input type="checkbox"/>            | SHOOTING OR ACIDIZING   | <input type="checkbox"/> |
| REPAIR WELL             | <input type="checkbox"/>            | (Other)   | <input type="checkbox"/> |
| (Other)                 | <input type="checkbox"/>            | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | <input type="checkbox"/> |
| Re-perforate            | <input checked="" type="checkbox"/> |   |                          |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Present perforations in the Lower Hermosa Intrusive at 4226', 28', 30', 32', 34', 35', 36', 37', 38', 39', 40', 41', 42', 43', 44', 45', 46', 47', 49' and 51'.

Propose to sand pack casing up to 4239' and squeeze top group of perforations (4226-38) with 250 sxs cement. Then clean out hole to 4300' and re-perforate 4239'-45'. Frac with 40,000 gal oil and 20,000# 20-40 sand. Run sand pump and clean out to 4300'. Squeeze test well.

18. I hereby certify that the foregoing is true and correct

SIGNED *C. D. Williams*  
(This space for Federal or State office use)

TITLE **Production Superintendent** DATE **June 9, 1968**

APPROVED BY *John W. Bannister*  
CONDITIONS OF APPROVAL, IF ANY:

TITLE **Executive Secretary** DATE **6-6-68**

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

\*See Instructions on Reverse Side

2, USGS-Roswell  
2, ARIZONA  
1, Tribe  
1, JIF  
1, WRF  
1, RF

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R714.4.

ALLOTTEE NAVAJO  
TRIBE  
LEASE NO. 14-20-0603-8824  
NAVAJO "F" LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

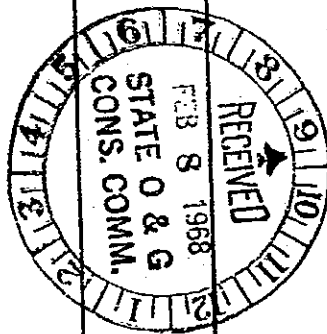
State ARIZONA County APACHE Field DINER-BI-KEYAH

The following is a correct report of operations and production (including drilling and producing wells) for the month of JANUARY, 1968.

Agent's address 215 Petroleum Center Building Company KESSE-ROGER CORPORATION  
Farmington, N. M. Signed [Signature]

Phone 327-9637 Agent's title Production Supt.

| SEC. AND<br>H. OF H. | TWP. | RANGE | WELL<br>NO. | DAYS<br>PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS<br>(In thousands) | GALLONS OF<br>GASOLINE<br>RECOVERED | BARRELS OF<br>WATER (If<br>none, so state) | REMARKS<br>(If drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas)                                   |
|----------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|---|
| SESE 24              | 36N  | 29E   | 1           | None             | 427            |         |                                  |                                     |  | OPERATIONS SHUT DOWN WHILE REVIEWING<br>POSSIBLE ADDITIONAL STIMULATION WORK.<br>NO ACTIVITY ON THIS LEASE DURING<br>JANUARY, 1968 thru May 19 68 |



Note.—There were NO runs or sales of oil; NO M. cu. ft. of gas sold;  
NO runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be duplicated with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO "F"

9. WELL NO.

NO. 1

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Kayah

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24, T36N, R29E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

8485' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Perf casing with 1 ft (0.52" hole) at 4226', 28', 30', 32', 34', 35', 36', 37', 38', 39', 40', 41', 42', 43', 44', 45', 46', 47', 49', 51'. Acidized perf with 2000 gal mud acid and 20, 7/8" balls. Max. Pressure 1000 psi. Ave. Treating Pressure 600 psi. Ave. Inj. Rate 5.5 BPM. ISD 400 psi. 15 min 200 psi. Swab down tubing. Got slight show of oil. Free with 36,000 gallons oil with 20#/1000 gal Adomite Mark II and 37,500#, 10-20 sand. Max. press 2200 psi. Ave. Treating Pressure 2200. Ave. Inj. Rate 71 BPM. ISD 1200 psi. 15 min 1000 psi.

2-USGS

2-Arizona

1-Tribe

1-JIP

1-WRF

1-RF

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Production Supt.

DATE 12-11-67

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

427

24

| OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION<br>TO TRANSPORT OIL OR GAS FROM LEASE  |                               |  |
|---|-------------------------------|--|
| Federal, State or Indian Lease Number,<br>or lessor's name if fee lease<br>NavaJo Wm 14-20-0603-8824  | Field<br>Dineh-bi-Keyah Field | Reservoir<br>Lower Hermosa (Intrusive) |
| Survey or Sec-Twp-Rge<br>Sec. 13 & 24, T36N, R29E   | County<br>Apache County       | State<br>Arizona                       |
| Operator<br>Kerr-McGee Corporation  |                               |  |
| ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:   |                               |  |
| Street<br>215 Petroleum Center Bldg.  | City<br>Farmington,           | State<br>New Mexico 87401              |
| Above named operator authorizes (name of transporter)<br>Kerr-McGee Pipeline Corporation  |                               |  |
| Transporter's street address<br>KerMac Building   | City<br>Oklahoma City,        | State<br>Oklahoma 73102                |
| Field address<br>P. O. Box 989 Farmington, New Mexico 87401   |                               |  |
| Oil, condensate, gas well gas, casinghead gas   |                               |  |
| To transport 100  | % of the OIL                  | from said lease.                       |
| OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:  |                               |  |
| Name of gatherer  | % transported                 | Product transported                    |
|   |                               |  |
|   |                               |  |
|   |                               |  |
| Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.<br>New Lease. |                               |  |

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Supt. of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

November 30, 1967

Date

Signature

Date approved: 12-4-67

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: John V. Bannister

Permit No. 427

cc: 2-AOGCC

2-BSGS

1-Tribe

1-JIF

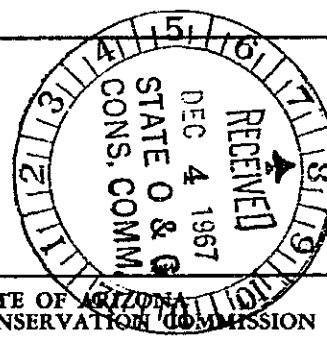
1-WRF

1-RF

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease

File Two Copies

Form No. 8



November 30, 1967

Bud Williams telephoned

Re: Kerr-McGee #F-1  
Permit 427

Completed. Encountered 38 feet of sill.

Permission granted to run a line from #F-1 SE to #16, where oil will be put into Kerr-McGee gathering system. Operatore will install separator and meter prior to entrance into gathering system.

JB



2-USGS-Roswell  
2-Arizona  
1-Tribe  
1-JIF  
1-WRF  
1-RF

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

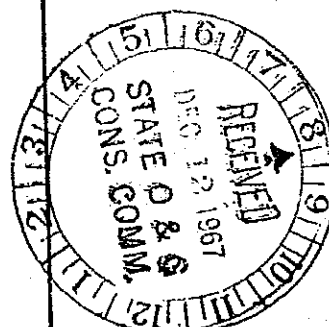
Form approved.  
Budget Bureau No. 42-R714.4.

ALLOTTEE NAVAJO  
TRIBE 14-20-0603-8824  
LEASE NO. NAVAJO APN LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

State ARIZONA County APACHE Field DINEH-BI-KEYAH  
The following is a correct report of operations and production (including drilling and producing wells) for the month of NOVEMBER 1967,  
Agent's address 215 Petroleum Center Bldg. Company Key-Holce Corporation  
Farmington, New Mexico Signed [Signature]  
Phone 327-9637 Agent's title Production Supt.

| SEC. AND<br>M. OF M. | TWP. | RANGE | WELL<br>NO. | DATE<br>PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS<br>(In thousands) | GALLONS OF<br>GASOLINE<br>RECOVERED | BARRELS OF<br>WATER (If<br>none, so state) | REMARKS<br>(If drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas)   |
|----------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|---|
| SESE 24              | 36N  | 29E   | 1           | None             |                |         |                                  |                                     |  | Spud 11-6-67. Set 9-5/8" casing at 751' w/490<br>axs cement. Drig 8-3/4" hole to 4465' and set<br>7" casing at 4462' w/150 axs 50-50 Pozmix w/<br>4% gel. Plug down 11-29-67. Will move out<br>rotary and move in DD unit for completion. |



Note.—There were NO runs or sales of oil; NO M. cu. ft. of gas sold;

NO runs or sales of gasoline during the month. (Write "no" where applicable.)  
Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 3-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R1424

6. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

NAVAJO "P"

9. WELL NO.

NO. 1

10. FIELD AND POOL OR WILDCAT

Dinah-44-Kayah

11. SEC. T. R. M. OF ALK. AND

Sec. 24, T36N, R29E G4SRM

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, GR, etc.)

8479' (Ungraded)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Spud.

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spud at 1:30 PM 11-6-67. Drilled 13-3/4" hole to 749', and set 9-5/8" OD, 32.30#, B-40, 8R, ST&C casing at 751'. Cemented with 490 sacks cement with 4% Bentonite, 2% CaCl and 1/4% floccle per sack. Used pump and plug method. Circulated cement, plug down at 8:55 AM 11-8-67. Released pressure. Floats held OK. WOC 12 hrs. Test casing and BOP to 1200 psi for 30 minutes. Held OK. Drilling 8-3/4" hole below surface casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

Gary Roth -wm

TITLE

Production Engineer

DATE

11-9-67

(This space for Federal or State office use)

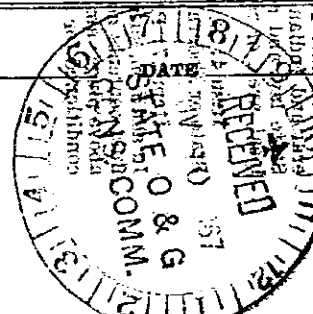
APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

\*See Instructions on Reverse Side

427

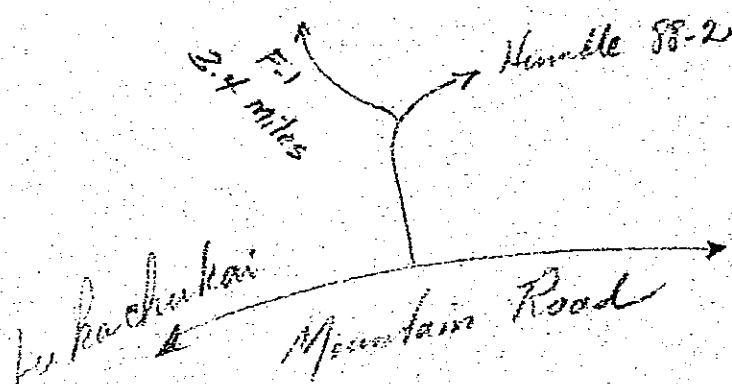


# WELL SITE CHECK

Contractor JCM Ref #3 Person(s) Contacted MS  
 Spud date \_\_\_\_\_ Date 11-8-67  
 Type Rig \_\_\_\_\_ Rotary ☒ Cable ☐ Present Operations NO Cement  
 Samples \_\_\_\_\_  
 Pipe \_\_\_\_\_ Drilling with Air ☐ Mud ☐  
 Water Zones \_\_\_\_\_ Size Hole \_\_\_\_\_  
 Lost Circ. Zones \_\_\_\_\_ Size Drill Pipe \_\_\_\_\_  
 Formation Tops \_\_\_\_\_ Type Bit \_\_\_\_\_  
 Cores, Logs, DST \_\_\_\_\_ No. Bit \_\_\_\_\_ Drilling Rate \_\_\_\_\_  
 \_\_\_\_\_ Formation \_\_\_\_\_  
 Crews \_\_\_\_\_ Lithology \_\_\_\_\_

## REMARKS, PHOTO, MAP

Set 9 5/8 at 750 circulated



WELL NAME Kerr Mc Gee #1 Navajo F

Permit No. 427  
 Confidential: ☒ Yes ☐ No

# APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

Kerr-McGee Corporation  
NAME OF COMPANY OR OPERATOR

215 Petroleum Center Bldg. Farmington, New Mexico  
Address City State

Unknown at this time.  
Drilling Contractor

Address

## DESCRIPTION OF WELL AND LEASE

|  |  |                                      |
|--|--|--------------------------------------|
| Federal, State or Indian Lease Number, or if fee lease, name of lessor<br>14-20-0603-8824 Navajo "F" | Well number<br>1   | Elevation (ground)<br>8479' ungraded |
| Nearest distance from proposed location to property or lease line:<br>550 feet                       | Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:<br>None feet |                                      |
| Number of acres in lease:<br>1280  | Number of wells on lease, including this well, completed in or drilling to this reservoir:<br>1                    |                                      |

If lease, purchased with one or more wells drilled, from whom purchased:  
None.

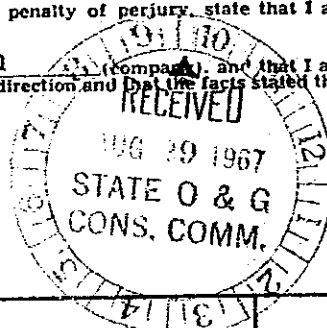
|  |   |   |
|--|---|---|
| Well location (give footage from section lines)<br>550' FSL & 740' FEL | Section—township—range or block and survey<br>Sec. 24-T36N-R29E G&SRM | Dedication (Comply with Rule 105)<br>SE/4 Sec. 24 |
| Field and reservoir (if wildcat, so state)<br>Dineh-bi-Keyah           | County<br>Apache  |   |

Distance, in miles, and direction from nearest town or post office  
10 miles SW of Red Rock, Arizona.

|                           |   |   |
|---------------------------|---|---|
| Proposed depth:<br>4900'  | Rotary or cable tools<br>Rotary & Cable Tools | Approx. date work will start<br>Sept. 4, 1967 |
| Bond Status: Blanket Bond | Organization Report                           | Filing Fee of \$25.00                         |
| Amount                    | On file XX Or attached                        | Attached Yes                                  |

Remarks:  
New Well.  
Covered by Commission order No. 21.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Supt. of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.



Signature

August 28, 1967  
Date

Permit Number: 427  
Approval Date: 8-29-67  
Approved By: John Bannister  
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Application to Drill or Re-enter  
File Two Copies

Form No. 3

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES XX NO \_\_\_\_\_
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES \_\_\_\_\_ NO \_\_\_\_\_ If answer is "yes," Type of Consolidation \_\_\_\_\_
6. If the answer to question four is "no," list all the owners and their respective interests below:

|  |                        |
|--|------------------------|
| Owner _____  | Land Description _____ |
| <div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 24px; font-weight: bold;">SEE ATTACHED SURVEY PLAT.</div> </div>   |                        |
| <div style="text-align: center; font-weight: bold; font-size: 12px;">CERTIFICATION</div> <p style="font-size: 10px;">I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Name _____</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Position _____</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Company _____</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Date _____</div> <p style="font-size: 10px; margin-top: 10px;">I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Date Surveyed _____</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">Registered Professional Engineer and/or Land Surveyor _____</div> <div style="border: 1px solid black; padding: 2px; margin-top: 2px;">Certificate No. _____</div> |                        |

PROPOSED CASING PROGRAM

| Size of Casing | Weight | Grade & Type | Top | Bottom | Cementing Depths  | Sacks Cement        |
|----------------|--------|--------------|-----|--------|---|---------------------|
| 9-5/8" OD      | 32.30  | H-40 ST&C    | 0   | 700    | 0-700   | Sufficient to circ. |
| 7" OD          | 20.00  | J-55 ST&C    | 0   | 4140   | Sufficient to cover all potential Productive zones. If Intrusive is not present, well will probably be drilled to Granite & 5-1/2" csg. set the productive zones, if any are encountered. |                     |

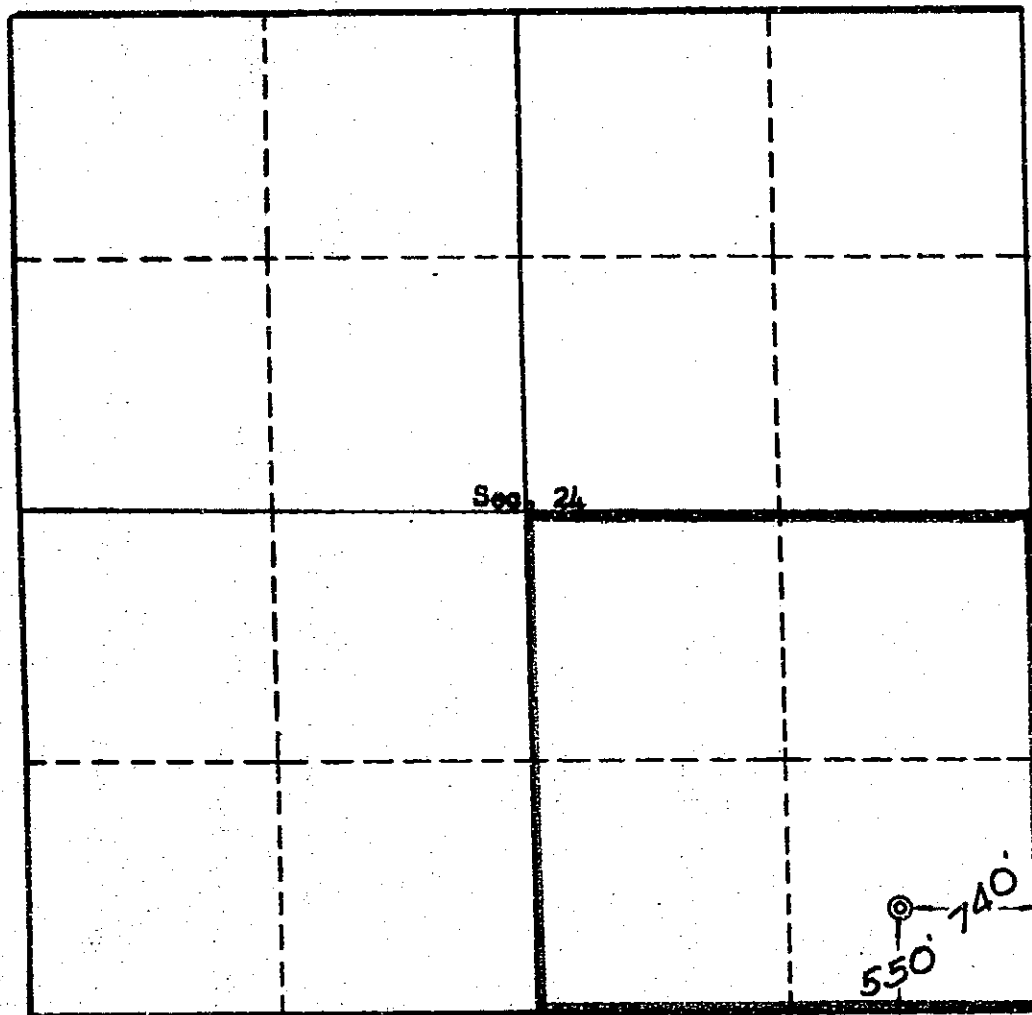
Company Kerr-McGee Corporation

Well Name & No. "F" #1, Navajo

Location 550 feet from the South line and 740 feet from the East line.

Sec. 24, T. 36 N., R. 29 E., G. & S. R. M., County Apache, Arizona

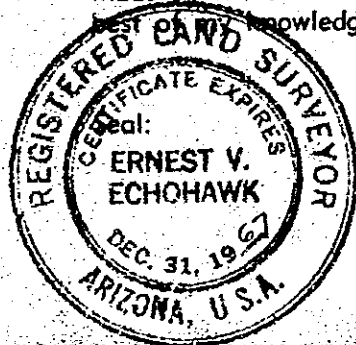
Ground Elevation 8479 ungraded



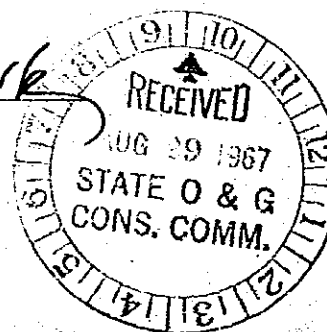
Scale, 1 inch = 1,000 feet

Surveyed August 9, 1967

This is to certify that the above plot was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



*Ernest V. Echohawk*  
Ernest V. Echohawk  
Registered Land Surveyor  
Arizona Registration No. 2311





## PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,  
STATE OF ARIZONA,

To: Kerr-McGee Corp.  
(OPERATOR)

to drill a well to be known as

Kerr-McGee #1 Navajo "F"  
(WELL NAME)

located 550' FSL, 740' FSL (SE/4 SE/4) Sec. 24 - T36N- R29E

Section 24 Township 36N Range 29E, APACHE County, Arizona.

The SE/4 Sec. 24 - T36N - R29E of said  
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled  
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 29th day of August, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister  
EXECUTIVE SECRETARY

PERMIT No 427

RECEIPT NO. 2846  
API 02-001-20051

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27



**KERR-McGEE CORPORATION**

626 AMARILLO PETROLEUM BUILDING  
P. O. BOX 250 • AMARILLO, TEXAS 79105

PHONE  
806 376-7256

December 11, 1969

Mr. P. T. McGrath  
United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Mr. John Bannister  
Arizona Oil & Gas Conservation Comm.  
1624 West Adams  
Room 202  
Phoenix, Arizona 85007

Re: Navajo "F" #1  
SESE, Sec 24, T36N, R29E  
Dineh-bi-Keyah Field  
Apache County, Arizona

Gentlemen:


Enclosed is Notice of Intention to change plans of plugging  
of the caption well.

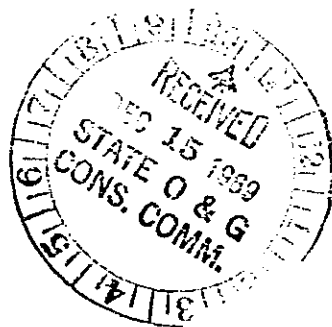
As discussed on the telephone, adverse weather and difficulty  
in obtaining suitable equipment has made an attempt to recover  
the 7" casing undesirable.

Your approval of this work is requested.

Sincerely yours,

KERR-McGEE CORPORATION

  
C. D. Williams  
Manager, Southwestern District  
Production Division



CDW/ss  
Encl.





**KERR-MCGEE CORPORATION**

626 AMARILLO PETROLEUM BUILDING  
P. O. BOX 250 • AMARILLO, TEXAS 79105

PHONE  
806 376-7256

October 31, 1969

United States Geological Survey  
Post Office Box 959  
Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

Arizona Oil and Gas Conservation Commission  
1624 West Adams, Room 202  
Phoenix, Arizona 85007

Attention: Mr. John Bannister


RE: Navajo "F" No. 1  
SESE, Sec. 24, T36N, R29E  
Dineh-bi-Keyah Field  
Apache County, Arizona

Gentlemen:

Enclosed is notice of intention to abandon captioned well. Efforts to produce this well in paying quantities have been unsuccessful. Your approval of this work is requested.

Sincerely,

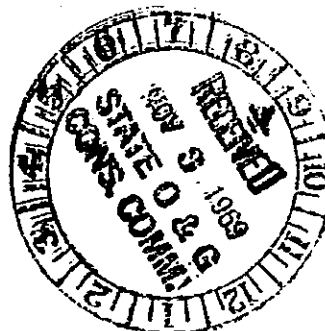
KERR-MCGEE CORPORATION

  
C. D. Williams  
Manager  
Southwestern District  
Production Division

CDW/mh

Enclosure

cc: Navajo Tribe Mineral Department  
Window Rock, Arizona 86515





**KERR-MCGEE CORPORATION**  
215 Petroleum Center Building  
Farmington, New Mexico 87401

June 5, 1969

United States Geological Survey  
Post Office Box 959  
Farmington, New Mexico 87401  
ATTENTION Mr. P. T. McGrath

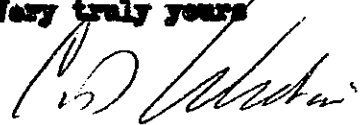
Arizona Oil and Gas Conservation Commission  
1624 West Adams  
Phoenix, Arizona 85007  
ATTENTION Mr. John Basmister

In re Navajo "F" No. 1  
SE1/4, Sec 24, T36N, R29W  
Dineh-bi-Kayah Field  
Apache County, Arizona

Gentlemen

Enclosed please find Notice of Intention to Reenter captioned well  
and place it on production. Your approval of this work is requested.

Very truly yours

  
C. D. Williams  
Production Superintendent

CDW/lm

Enclosures

CC: Navajo Tribe Minerals Department  
ATTENTION Mr. P. K. Haribut

*App'd copy of USGS for  
mailed 6/6/69*



Operator KERR MC GEE ~~OIL INDUSTRIES INC.~~ Corporation  
 Bond Company Insurance Co. of N. America Amount 25,000  
 Bond No. M 41 95 25 (KM528) Date Approved 10-28-65

Permits covered by this bond:

**CANCELLED**

DATE 10-24-68

|     |     |     |
|-----|-----|-----|
| 10  | 386 | 417 |
| 36  | 389 | 418 |
| 37  | 390 | 419 |
| 38  | 391 | 420 |
| 39  | 392 | 422 |
| 57  | 396 | 426 |
| 63  | 397 | 427 |
| 64  | 398 | 441 |
| 142 | 399 | 445 |
| 238 | 402 | 446 |
| 303 | 403 |     |
| 90  | 404 |     |
| 91  | 405 |     |
| 349 | 406 |     |
| 303 | 407 |     |
| 377 | 408 |     |
| 378 | 409 |     |
| 379 | 410 |     |
| 380 | 411 |     |
| 381 | 413 |     |
| 384 | 414 |     |
| 385 | 416 |     |

→ see this file

Superseded by  
 American Casualty Co. Bond  
 \$25,000  
 #5471020-52



**KERR-McGEE CORPORATION**

KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building  
Farmington, New Mexico 87401

October 3, 1968

Arizona Oil and Gas Conservation Commission  
1624 West Adams, Room 202  
Phoenix, Arizona 85007

Attention Mr. Jim Scurlock

In re Navajo "F" Well No. 1  
Sec. 24, T36N, R29E  
Apache County, Arizona  
Permit No. 427

Dear Jim

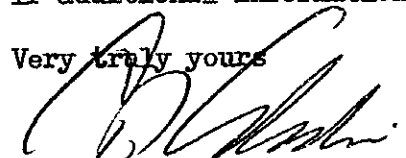
Enclosed please find one copy of the Induction-Electric Log and the  
Sonic-Gamma Ray Log for Navajo "F" No. 1 well.

The top, bottom and description of formations penetrated in the well are:

B. Chuska/T. Wingate (Tertiary) - Surface to 718', sandstone  
Chinle (Triassic) - 718-1792', red shale w/thin stringers sandstone  
Coconino (Permian) - 1792-2514', massive sandstone w/shaly stringers  
Cutler (Permian) - 2514-3641', shale, sandstone & limestone  
Hermosa (Penn) - 3641-4222', limestone, dense, w/red & gray shale  
and thin stringers sand  
Intrusive (Tertiary) - 4222-4401', syenite sill  
Mississippian - 4401-4465' TD, limestone, dense w/ some vari-  
colored shale

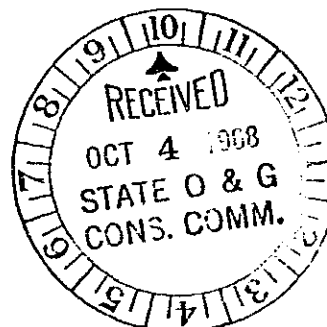
If additional information is needed, please advise.

Very truly yours

  
C. D. Williams  
Production Superintendent

1m  
Enclosures

94  
Copy to P. W. Peirce  
10/4/68  
427



September 30, 1988

Mr. C. D. Williams  
Kerr-McGee Corporation  
215 Petroleum Center Building  
Farmington, New Mexico 87401

Re: Kerr-McGee #1 Navajo F  
T36N, R29E, G & SRM  
Sec. 24: SE/4 SE/4  
Apache County, Arizona  
Permit #427

Dear Bud:

Would you please send us the logs on the F#1 along with the  
formation tops if you have them picked.

Thanks and best regards.

*Recd 10/4/88  
IE & BH-GR*

Jim

P. S. Better come to see us this fall while we're having  
this beautiful weather and bring your golf clubs.

JS:jf



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building  
Farmington, New Mexico 87401

June 5, 1968

United States Geological Survey  
Post Office Box 959  
Farmington, New Mexico 87401

Attention Mr. P. T. McGrath

Arizona Oil and Gas Conservation Commission  
1624 West Adams, Room 202  
Phoenix, Arizona 85007

Attention Mr. John Bannister

In re Navajo "F" No. 1  
SESE, Sec. 24, T36N, R29E  
Dineh-Bi-Keyah Field  
Apache County, Arizona

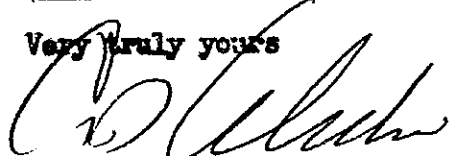
Gentlemen:

Enclosed is notice of intention to squeeze, reperforate and fracture  
treat the Lower Hermosa Intrusive in the above captioned well.

Response from the initial frac treatment of the zone was poor and  
the proposed work is a further attempt to establish production.

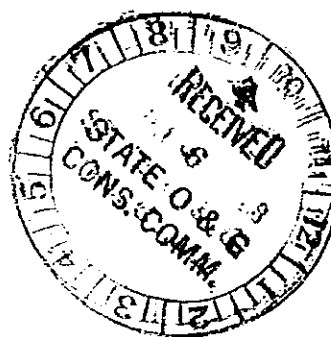
Your approval of this work is requested.

Very truly yours

  
C. D. Williams  
Production Superintendent

Im

CC: Navajo Tribe Mineral Department  
Farmington, New Mexico



427



**KERR-McGEE CORPORATION**

KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102  
215 Petroleum Center Building  
Farmington, New Mexico 87401

March 11, 1968

Arizona Oil & Gas Conservation Commission  
Room 202, 1624 West Adams  
Phoenix, Arizona 85007

Attention Mr. John Bannister, Executive Secretary

In re Kerr-McGee No 1, Navajo F  
SESE, Sec 24, T36N, R29E  
Apache County, Arizona  
Permit No 427

Gentlemen

As you are aware, Commission Rule No. 202.B requires that when drilling operations have been suspended for sixty days, the well is to be plugged and abandoned unless permission for temporary abandonment is obtained from the Commission.

Due to adverse weather conditions and the poor response from the frac job, operations will be suspended at Navajo F No. 1 in excess of sixty days. It is respectfully requested that the Commission not require F-1 to be plugged and abandoned at the end of sixty days and that permission be given for Kerr-McGee to maintain the well in a suspended operations or temporary abandoned status until weather conditions improve and our study and review of possible additional stimulation work is completed.

Very truly yours,

*C. D. Williams*  
C. D. Williams

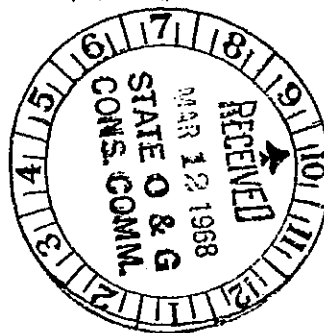
1m  
VIA AIR MAIL

CC: Mr. J. I. Fisher

**APPROVED**

*John Bannister*  
By John Bannister

Date 3-11-68



OIL & GAS CONSERVATION COMMISSION  
STATE OF ARIZONA  
1624 WEST ADAMS - SUITE 202  
TELEPHONE: 271-5161  
PHOENIX, ARIZONA, 85007

| OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION<br>TO TRANSPORT OIL OR GAS FROM LEASE   |                                      |   |
|--|--------------------------------------|---|
| Federal, State or Indian Lease Number,<br>or lessor's name, if fee lease<br><b>Navajo "F" 14-20-0603-8824</b>  | Field<br><b>Dineh-bi-Keyah Field</b> | Reservoir<br><b>Lower Hermosa (Intrusive)</b> |
| Survey or Sec-Twp-Rge<br><b>Sec. 13 &amp; 24, T36N, R29E</b>   | County<br><b>Apache County</b>       | State<br><b>Arizona</b>                       |
| Operator<br><b>Kerr-McGee Corporation</b>  |                                      |   |
| ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:  |                                      |   |
| Street<br><b>215 Petroleum Center Bldg.</b>  | City<br><b>Farmington,</b>           | State<br><b>New Mexico 87401</b>              |
| Above named operator authorizes (name of transporter)<br><b>Kerr-McGee Pipeline Corporation</b>  |                                      |   |
| Transporter's street address<br><b>KerMac Building</b>   | City<br><b>Oklahoma City,</b>        | State<br><b>Oklahoma 73102</b>                |
| Field address<br><b>P. O. Box 989 Farmington, New Mexico 87401</b>   |                                      |   |
| Oil, condensate, gas well gas, casinghead gas  |                                      |   |
| To transport <b>100</b>  | % of the <b>OIL</b>                  | from said lease.                              |
| OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:   |                                      |   |
| Name of gatherer   | % transported                        | Product transported                           |
|  |                                      |   |
|  |                                      |   |
|  |                                      |   |
|  |                                      |   |
| Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.<br><b>New Lease.</b> |                                      |   |

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Supt. of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

November 30, 1967

Date

Signature

Date approved: 12-4-67

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: John W. Hammett

Permit No. 427

cc:

2-AOGCC

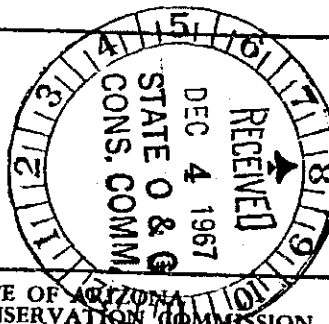
1-WRF

2-UGS

1-RF

1-Tribe

1-JIF



STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease

File Two Copies

Form No. 8

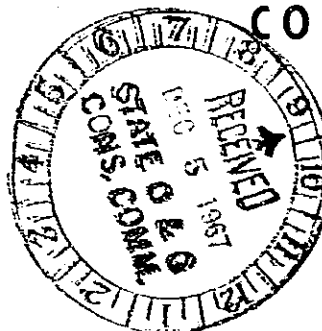


**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building  
Farmington, New Mexico 87401

December 4, 1967

United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

Attention: Mr. John Anderson

State of Arizona  
Oil & Gas Conservation Commission  
Room 202 - 1624 West Adams  
Phoenix, Arizona 85007

Attention: Mr. John Hannister

Re: Off Lease Oil Measurement  
Navajo "F" Lease  
Dinah-bi-Kayah Field  
Apache County, Arizona

Gentlemen:

In anticipation of oil production from the Navajo "F" Lease, which is Navajo Lease Contract No. 14-20-0603-8824, comprised of Sections 13 and 24, T36N, R29E, Navajo Reservation, Apache County, Arizona, Kerr-McGee requests permission to measure and store the oil from this lease at an off lease location. This request is due to the topography of the area and the inaccessibility of the "F" Lease during winter operations. Navajo "F" No. 1, which is currently in the process of completion, is located at an elevation of 8485'. It is proposed the production from the "F" Lease be separated and metered at a site near the Navajo No. 16 location, where the elevation is approximately 7500'. The Navajo No. 16 is connected by a system of roadways to the major portion of Kerr-McGee's operations in the Dinah-bi-Kayah Field, which is the Navajo Lease.

Enclosed please find a map showing the location of the Navajo "F" No. 1 well and the Navajo No. 16 well and the proposed connecting flowline. As you will note from the topographical contours a steep cliff is present between the two wells. Also enclosed please find a schematic diagram of the proposed separator-metering hookup. The meter to be used is a Floco Model F 500-2 positive displacement meter. A 500 barrel tank will be set near the separator and meter to test and calibrate the meter. After passing through the separator and Floco meter, the oil will combine with the oil coming from the Navajo No. 16 well and pass through

427

United States Geological Survey  
State of Arizona Oil & Gas Conservation Commission  
Page Two  
December 4, 1967

the present gathering line from No. 16 to the 6" pipeline of Kerr-McGee Pipeline Corporation, located in the E/2 of Section 30 near the No. 10 location indicated on the enclosed map.

The working interest and royalty of the two leases are identical. Granting of this request would minimize the possibility of "F" No. 1 well shut-down due to the inaccessibility of the location during adverse weather conditions.

It would be appreciated if you would approve this letter and return one copy to the undersigned at the above address.

Very truly yours,

KERR-MCGEE CORPORATION

*C. D. Williams*  
C. D. Williams  
Production Superintendent

CDW:la

Enclosures

CC: Bureau of Oil & Gas Conservation Commission  
STATE OF ARIZONA  
1624 WEST ADAMS - SUITE 202  
TELEPHONE: 271-5161  
TULSA, ARIZONA 85007

APPROVED:

BY:

DATE:

*John W. Gannister*  
*12-5-67*

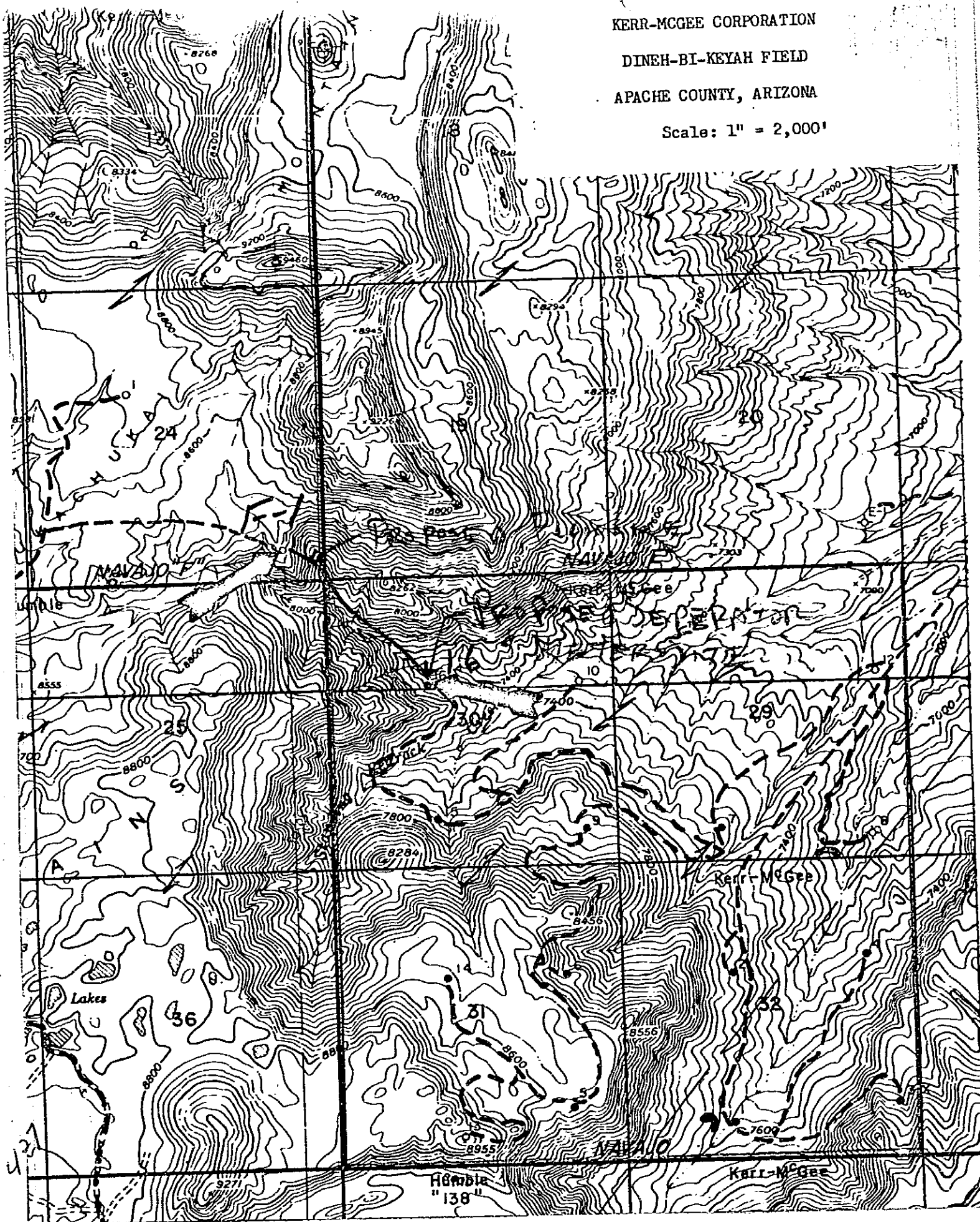
427

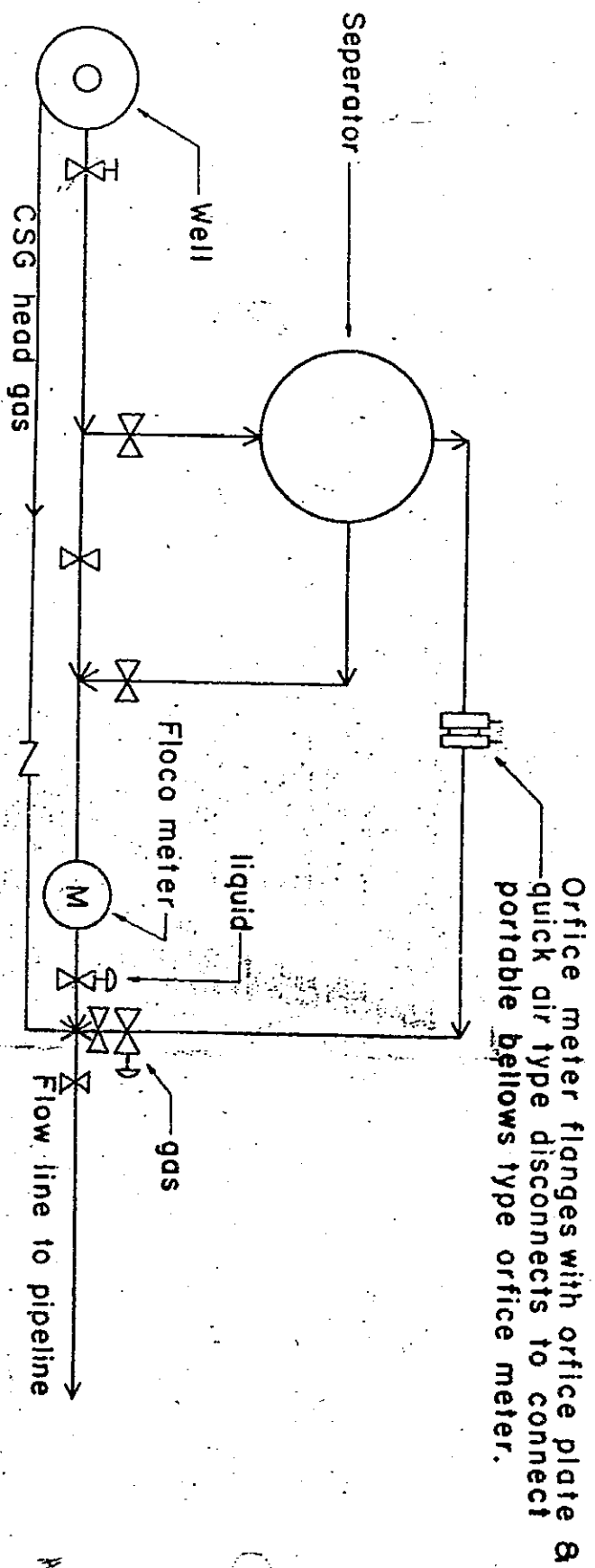
KERR-MCGEE CORPORATION

DINEH-BI-KEYAH FIELD

APACHE COUNTY, ARIZONA

Scale: 1" = 2,000'





- ⌵ — High pressure shut down switch - max. 125 lbs.
- ⌵ — Back pressure valve
- ⌵ — Valve
- Σ — Check valve

All pipe valves & fittings - 125 PSI quality

**DINEH-bi-KEYAH FIELD**  
WELL PRODUCTION FACILITIES  
SKEMATIC - by E.L.C. & W.E.R.

LEH

December 1, 1967

Kerr-McGee Corporation  
215 Petroleum Plaza Bldg.  
Farmington, New Mexico 87401

Attention: Mr. C.D. Williams

Re: Kerr-McGee #1-F Navajo  
SE SE 24-36N-29E Apache County, Arizona  
Permit 427

Gentlemen:

A review of our file reflects we have received only spud and surface casing data. It will of course be necessary that you file all the required information as well as completion report and authorization to transport request to bring this file into compliance with our rules and regulations.

For your convenience in noting the required reporting, we are enclosing a marked copy of "Forms--when to file".

Your cooperation is most appreciated.

Very truly yours,

John Bannister  
Executive Secretary  
mr  
enc



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

November 9, 1967

COPY

United States Geological Survey  
Oil and Gas Division  
P. O. Box 959  
Farmington, New Mexico

Attn: Mr. P. T. McGrath

RE: Navajo "F" No. 1  
Dineh-bi-Keyah Field  
Apache Co., Arizona

Gentlemen:

Enclosed please find U.S.G.S. Form 9-331, for our Navajo "F"  
No. 1 well, located in Sec. 24, T36N, R29E, Dineh-bi-Keyah Field,  
in Apache County, Arizona.

Please keep all information on this well confidential. If  
any further information is required, please advise.

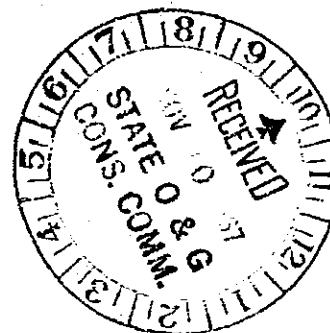
Sincerely yours,  
KERR-MCGEE CORPORATION

*Gary Roth - wmm*  
Gary Roth  
Prod. Engineer

hs

Enclosures

cc: Arizona ✓  
Tribe  
J.I.F.  
WRF  
RF



427



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102  
215 Petroleum Center Building  
Farmington, New Mexico  
August 28, 1967

State of Arizona  
O&G Conservation Commission  
Room 202 - 1624 W. Adams  
Phoenix, Arizona 85007

Attn: Mr. John Bannister

RE: Arizona O&G Commission  
Application For Permit  
To Drill - Form #3  
Navajo "F" No. 1  
Apache County, Arizona

Gentlemen:

Attached please find Arizona Oil & Gas Conservation Commission Form No. 3 for our Navajo "F" Well No. 1. This well is located in Sec. 24, T36N, R29E, Apache County, Arizona. Also enclosed are two copies of the Surveyor's plat for the location of the well. A draft for \$25.00 to cover the filing fee is included.

Your approval of this application is requested.

Very truly yours,  
KERR-MCGEE CORPORATION

*C. D. Williams*  
C. D. Williams  
Production Supt.

CDW/hs

Enclosures

cc: Tribe  
J.I.F.  
R.W.K.  
Draft Copy  
WRF "F" #1  
RF

*Ins Co of N. Am* *MA-95-21-KM528*  
*\$ 25.00*

427

